

Parallel Computer Architecture: Multi-core Tech.

3: Concepts from Jouppi's paper (ILP)

Krerk Piromsopa, Ph.D. Department of Computer Engineering Chulalongkorn University



Definitions

- Operation latency (OL): the number of cycles until the result of an instruction is available.
- (Instruction) Issue Latency (IL): the number of cycles required between issuing two consecutive instructions.
- (Instruction) Issue Rate (Issue Parallelism) (IP): the maximum number of instructions that can be issued in a cycle. (degree)
- Maximum Instruction-level Parallelism (MILP): the maximum number of simultaneously executing instructions









